

Mapping the Fermi surface topology in f-electron systems

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Angle-resolved photoemission of various cerium and uranium f-electron systems is presented. The primary focus will be on (i) mapping the three-dimensional Fermi surface (FS) of the prototype heavy fermion system CeRu_2Si_2 and its f0 reference compound LaRu_2Si_2 , (ii) ARPES signatures of f-d hybridization, and (iii) FS nesting in ferromagnetic superconductor UGe_2 .